

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P257149

Luminaire Tested: **14GR-LD5-60-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-F125-UNV-L940-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH F125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5180.6 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

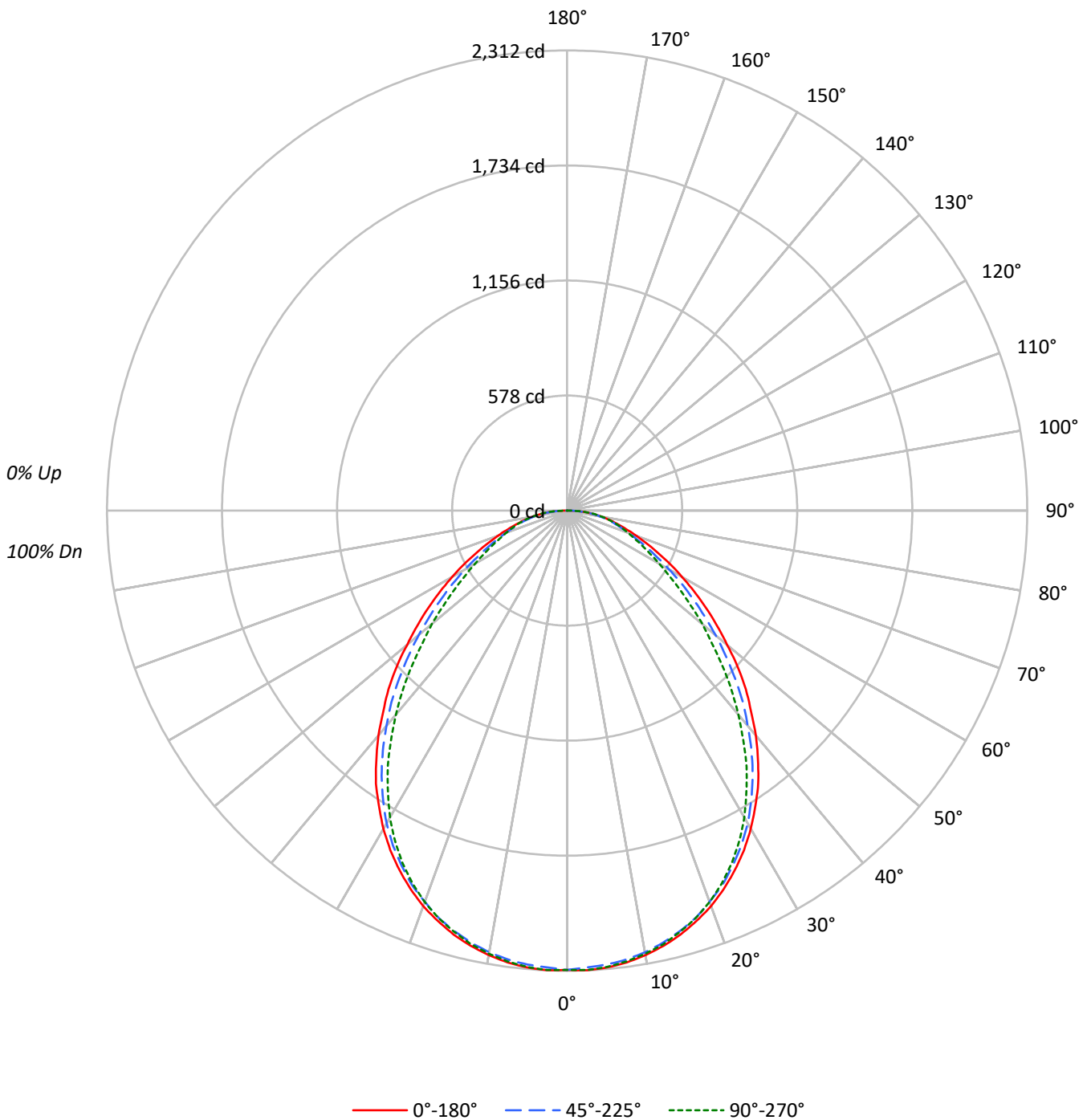
Input Watts (W): 59.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7777	7777	7777
5°	7794	7745	7786
10°	7759	7709	7734
15°	7691	7631	7644
20°	7583	7500	7504
25°	7410	7319	7270
30°	7182	7059	6926
35°	6888	6687	6468
40°	6488	6210	5884
45°	6050	5685	5262
50°	5501	5100	4647
55°	5008	4522	4051
60°	4490	3983	3597
65°	4004	3548	3306
70°	3641	3234	3198
75°	3403	3151	3308
80°	3421	3256	3444
85°	3572	3336	3808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	4.2
10°-20°	618.7	11.9
20°-30°	907.1	17.5
30°-40°	1012.4	19.5
40°-50°	916.6	17.7
50°-60°	692.1	13.4
60°-70°	452.4	8.7
70°-80°	265.7	5.1
80°-90°	97.3	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1744.0	33.7
0°-40°	2756.5	53.2
0°-60°	4365.2	84.3
0°-90°	5180.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2304	2300	2290	2303	2302	219
15°	2205	2201	2188	2200	2191	621
25°	1993	1986	1969	1965	1955	917
35°	1674	1660	1626	1589	1572	1043
45°	1270	1250	1193	1128	1104	975
55°	852	833	770	709	690	763
65°	502	486	445	420	415	504
75°	261	254	242	247	254	281
85°	92	89	86	97	98	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2308.0	2308.0	2308.0	2308.0	2308.0
2.5°	2311.6	2308.0	2297.0	2311.6	2310.4
5°	2304.3	2299.5	2289.7	2303.1	2301.9
7.5°	2289.7	2284.8	2275.1	2287.3	2284.8
10°	2267.8	2262.9	2253.2	2266.6	2260.5
12.5°	2239.9	2235.0	2224.0	2236.2	2231.4
15°	2204.6	2200.9	2187.6	2199.7	2191.2
17.5°	2162.0	2155.9	2146.2	2153.5	2147.4
20°	2114.6	2107.3	2091.5	2098.8	2092.7
22.5°	2057.5	2047.7	2036.7	2036.7	2028.2
25°	1993.0	1985.7	1968.7	1965.0	1955.3
27.5°	1923.6	1917.6	1895.7	1889.7	1872.6
30°	1845.9	1837.4	1814.3	1794.8	1780.2
32.5°	1759.6	1753.5	1721.8	1696.3	1675.6
35°	1674.4	1659.8	1625.7	1589.3	1572.3
37.5°	1574.7	1563.7	1521.2	1476.2	1453.1
40°	1475.0	1461.7	1411.8	1361.9	1337.6
42.5°	1366.8	1354.6	1307.2	1247.6	1222.1
45°	1269.5	1250.0	1192.9	1128.4	1104.2
47.5°	1162.5	1141.8	1081.0	1012.9	985.0
50°	1049.4	1036.0	972.8	907.1	886.5
52.5°	948.5	927.8	868.3	803.8	781.9
55°	852.4	832.9	769.7	708.9	689.5
57.5°	756.4	734.4	679.7	625.0	605.5
60°	666.3	644.5	591.0	546.0	533.8
62.5°	584.9	560.5	513.2	477.9	469.4
65°	502.2	486.4	445.0	419.5	414.7
67.5°	432.9	413.4	380.6	368.4	366.0
70°	369.6	356.3	328.3	324.6	324.6
72.5°	312.5	301.6	280.9	283.3	287.0
75°	261.4	254.1	242.0	246.8	254.1
77.5°	217.7	210.4	203.0	210.4	215.3
80°	176.3	169.0	167.8	173.9	177.5
82.5°	132.5	126.4	127.7	137.4	141.0
85°	92.4	88.8	86.3	97.3	98.5
87.5°	47.4	45.0	43.8	52.3	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)